

**AMENDMENTS TO THE CLAIMS**

1. (**Currently amended**) An in-vitro method for the identifying ieation and/or quantification of guanylate binding protein-1 or fragments of this protein in a sample comprising: in the culture supernatant of a tissue sample, a body fluid sample or a sample from a cell culture supernatant, wherein the method comprises the steps of:

(a) contacting of the a sample of the supernatant of a tissue culture, a sample of the supernatant of a cell culture or a sample of the supernatant of a body fluid sample with a first receptor which specifically binds guanylate binding protein-1 or a fragment of guanylate binding protein-1 this protein; and

(b) detecting a specific binding of the receptor with guanylate binding protein-1 or a fragment of this protein guanylate binding protein-1; and

thereby identifying the presence of guanylate binding protein-1 in the supernatant of said tissue sample, supernatant of said cell culture sample or body fluid sample.

2. (**Currently Amended**) The method according to claim 1, ~~furthermore~~ comprising, prior to step (a): step (a') or (a'') ~~prior to contacting with the first receptor:~~

(a') labelling the proteins contained in the sample; or

(a'') labelling the first receptor.

3. (**Currently Amended**) The method according to claim 1, wherein the receptor is immobilized on a surface prior to contacting with guanylate binding protein-1 or fragments of guanylate binding protein-1 this protein.

4. (**Currently Amended**) The method according to claim 1, wherein the receptor is immobilised on a surface after contacting with guanylate binding protein-1 or ~~of~~ fragments of guanylate binding protein-1 this protein.

5. **(Currently Amended)** The method according to claim 3 or 42, wherein the material of the surface is selected from the group consisting of sepharose, latex, glass, polystyrene, polyvinyl, nitrocellulose and silicon.

6. **(Currently Amended)** The method according to claim 3 or 42, wherein the surface is a membrane, a bead, a chip or a plate.

7. **(Currently Amended)** The method according to claim 6, ~~furthermore comprising comprising,~~ prior to step (b): ~~the step (a'')~~ prior to the step of detection of a specific binding:

(a'') precipitating the beads with ~~the complexes which that~~ are bound to said beads, said complexes comprising thereto of the first receptor and guanylate binding protein-1 or a fragment of guanylate binding protein-1 ~~this protein~~.

8. **(Currently Amended)** The method according to claim 71, wherein the detection of the specific binding in step (b) comprises a gel electrophoretic ~~cleavage separation analysis;~~ optionally, ~~furthermore, a Western blot analysis.~~

9. **(Currently Amended)** The method according to claim 1, wherein for the detection of a specific binding of said guanylate binding protein-1 or a fragment of guanylate binding protein-1 ~~this protein~~ with the first receptor in step (a), the sample is contacted with ~~the a~~ second receptor for guanylate binding protein-1 or a fragment of guanylate binding protein-1 ~~this protein~~, which binds to an epitope of guanylate binding protein-1 or a fragment of guanylate binding protein-1 ~~this protein~~, ~~which that~~ is accessible after the binding of the first receptor to said guanylate binding protein-1 or a fragment of guanylate binding protein-1 ~~this protein~~.

10. **(Currently Amended)** The method according to claim 9, wherein the second receptor for guanylate binding protein-1 or fragments of guanylate binding protein-1 ~~this protein~~ is/are labelled.

11. **(Currently Amended)** The method according to claim 10, wherein the labelling of the second receptor for guanylate binding protein-1 or a-fragment of guanylate binding protein-1~~this protein~~ comprises a system emitting a signal ~~or which is specifically recognised by a further, third receptor comprising a system emitting a signal.~~

12. **(Currently Amended)** The method according to claim 11, wherein the system emitting a signal comprises an enzyme emitting theis signal.

13. **(Currently Amended)** The method according to claim 9, wherein the first and the second receptor ~~and, optionally, also the third receptor,~~ are selected from the group consisting of peptides, polypeptides, low-molecular substances, antibodies or fragments or derivatives thereof and aptamers.

14. **(Previously Presented)** The method according to claim 1, wherein the method is an ELISA, an EIA or a RIA.

15. **(Previously Presented)** The method according to claim 1, wherein the method is carried out automatically.

16. **(New)** The method according to claim 1, wherein said receptor is an antibody.

17. **(New)** The method according to claim 16, wherein said antibody is a polyclonal antibody.

18. **(New)** The method according to claim 16, wherein said antibody is a monoclonal antibody.

19. **(New)** The method according to claim 1, wherein the amount of identified guanylate binding protein-1 is quantified.

20. **(New)** The method according to claim 1, wherein said tissue comprises cultivated endothelial cells.

21. **(New)** The method according to claim 1, wherein said body fluid is human serum, human plasma or human liquor.

22. **(New)** The method according to claim 1, wherein said cell culture comprises endothelial cells.

23. **(New)** The method according to claim 8, wherein said detection step comprises a Western blot.

24. **(New)** The method according to claim 9, wherein the label on said second receptor is specifically recognized by a third receptor comprising a system emitting a signal.

25. **(New)** The method according to claim 24, wherein said third receptor is selected from the group consisting of peptides, polypeptides, low-molecular substances, antibodies or fragments or derivatives thereof and aptamers.